

City of Cambridge, MA
MCM 3 - ILLICIT DISCHARGE DETECTION & ELIMINATION
Sanitary Sewer Overflow (SSO) Inventory

SSO Location	Discharge Statement	Date	Time Start	Time End	Estimated Volume	Description	Mitigation Completed	Mitigation Planned
2019 Reported SSOs								
107-109 Magazine Street	SSO discharge into private property basement.	6/20/2019	4:00 PM	5:00 PM	25 Gallons	DPW received report from resident about a sewer backup into basement that had begun on 6/17/2019	DPW jetted the Magazine sewer line on 6/20 and 6/21/2019 clearing the blockage. DPW advised the property owner to have an open drain line in the basement capped and to install backwater valves on basement fixtures.	DPW to monitor Magazine sewer line regularly.
678 Massachusetts Ave	SSO discharge into private property basement.	6/20/2019	1:00 PM	2:30 PM	20 Gallons	DPW received a high water alarm from a sensor in the Mass Ave sewer around 1:00 PM. The property owner discovered a sewer backup around the same time.	DPW jetted the blocked Mass Ave sewer line twice and cleared the blockage.	DPW to advise property owner to install and/or maintain backwater valves on basement fixtures
20 Prospect Street	SSO discharge into private property basement.	4/27/2019 - 4/29/2019	5:00 PM	4:30 PM	20 Gallons	DPW received report from drain company about a sewer backup into the basement of 20 Prospect Street.	DPW jetted the sewer line twice and cleared the line blockage.	DPW will continue to monitor the sewer.
149 Alewife Brook Parkway	SSO Discharge from sanitary sewer manhole to ground surface.	4/2/2019 - 4/3/2019	10:30 PM	12:00 AM	50 Gallons	Water coming of a sewer manhole in the parking lot at 11 p.m. on 4/2/19. Surcharged manhole on private property due to blockage in private sewer line.	DPW Sewer Division pumped out manhole and jetted sewer service line and cleared paper towel blockage and vactored up spilled water and cleaned area.	
201 Alewife Brook Parkway	SSO discharge from sanitary sewer manhole to ground surface.	4/1/2019	11:00 AM	12:00 PM	20 Gallons	DPW received call from restaurant regarding sewer back-up. Water level high in the private sewer manhole.	DPW pumped water from private manhole and jetted private sewer service line and City's sewer main as a precaution. Paper towels were observed in the private manhole.	
45 Linnaean Street	SSO discharge into private property basement.	3/17/2019	1:00 PM	9:00 PM	40 Gallons	Sewer system blockage, due to flowable fill in sewage system. High water levels in sewer manholes on Linnaean Street and Walker Street.	DPW Sewer Division jetted the Walker Street sewer line with the assistance of the City's sewer cleaning contractor. Drew down the water level in the Linnaean Street sewers and removed the flowable fill.	DPW will schedule a TV inspection of the sewer lines when a new TV contract is in place to ensure all flowable fill is removed.
Apple Cinemas 168 Alewife Brook Parkway	SSO Discharge from sanitary sewer manhole to Ground Surface	3/9/2019 - 3/10/2019	11:00 PM	1:30 AM	75 Gallons	Water leak called in to Water Department. Department responded and observed discharge from sewer manhole.	DPW Sewer Maintenance responded and affected sewer main was cleared with a water jet / vacuum truck.	

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20 Crescent Street	SSO discharge into private property basement.	2/28/2019	12:00 PM	3:30 PM	70 Gallons	Sewer system blockage identified by resident. Private drain company pumped 60 gallons from a basement tub into 5-gallon buckets; 10 Gallons of which spilled onto the basement floor. Resident contacted the DPW who responded and jetted blocked sewer line.	DPW Sewer Division crews responded and jetted a blocked sewer line on Crescent Street.	
Linskey Way behind 300 Third Street	SSO discharge to catch basin / ground surface.	1/29/2019	2:00 PM	3:00 PM	100 Gallons	Backup from catch basin on Linskey Way behind 300 Third Street.	DPW jetted a blocked combined sewer line on Linskey Way. Cleaned street and pumped out catch basin where water collected.	
2018 Reported SSOs								
Audrey Street at Memorial Drive	Sanitary sewer discharge from sanitary sewer manhole to catch basin to receiving water.	12/17/2018	3:00 PM	4:30 PM	100 Gallons	DPW Sewer Division responded to back-up from manhole on Audrey Street at the intersection with Memorial Drive.	DPW Sewer Division crews jetted the sewer line and cleared the blockage. Also pumped out a catch basin where water collected.	DPW will have City's TV contractor televise the section of sewer line where the blockage occurred.
3 Healy Street	SSO discharge into private property basement.	9/5/2018	5:00 PM	6:00 PM	Less than 5 Gallons	Sewer pipe obstructed with construction debris. Caused back-up into basement of 3 Healy Street.	DPW pumped out debris and jetted out sewer line.	
580 Massachusetts Avenue	SSO discharge into private property basement.	7/17/2018	5:00 PM	9:00 PM	Unknown	DPW Sewer Division responded to back-up in basement. Nearby manholes full due to rain storm.	DPW returned on 7/18 to jet out the sewer lines.	.
853 Main Street	SSO discharge into private property basement.	7/17/2018	5:00 PM	9:00 PM	10 Gallons	DPW Sewer Division responded to back-up in basement. Nearby manholes full due to rain storm.	DPW jetted the sewer line.	
651 Concord Avenue	SSO discharge into private property basement.	3/13/2018	7:00 PM	9:00 PM	Unknown	DPW Sewer Division responded to back-up in basement.	DWP jetted the sewer line on Concord Avenue.	DPW scheduling a video inspection of this sewer line
202 Green Street	SSO discharge into private property basement.	3/2/2018	7:00 PM	9:00 PM	Unknown	Rain event combined with sewer system blockage resulted in SSO discharge into private property basement.	DPW Sewer Division jetted sewer lines near 202 Green Street and the sewer lines on Brookline Street from Pacific to Green Street.	DPW returned are re-jetted all sewer lines on 3/6/19

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404 Broadway	SSO discharge to catch basin to receiving water – Charles River – and backup into private property basement.	2/20/2018 - 2/22/2018	1:00 PM	11:00 AM	Unknown	Private sewer system failed. Water leaked to adjacent sump pump in basement which pumped water outside the building which ran into the catch basin.	DPW informed resident that private sewer repairs were required which were completed on 2/22/18. DPW pumped out the catch basin sump where water collected on 2/20, 22 & 23. All water was contained within catch basin sump. No water entered the City storm drain system.	
2017 Reported SSOs								
303 Third Street	SSO discharge into private property basement.	11/20/2017	7:00 AM	11:00 AM	Unknown	DPW responded to back-up from downstream manhole and cleared the grease blockage.	DPW Sewer Division used it's vector truck to jet the line from a downstream manhole and cleared the blockage.	DPW will inspect nearby restaurants for proper fats, oils, grease trap maintenance and management. DPW will increase frequency of sewer inspections on Third Street and have TV/Cleaning Contractor perform video inspection.
Massachusetts Avenue at Norfolk Street	SSO accidental discharge leak from vector truck rear door while decanting into sewer manhole. Discharged to ground surface but contained within catch basin and pumped out.	8/3/2017	11:30 AM	11:31 AM	100 Gallons	Accidental release of vector truck rear door while decanting into sewer manhole.	Rapid Flow washed the water that spilled into the street back into the sewer manhole. DPW responded and vectored up water that pooled in the street and pumped out 2 nearby catch basins	
589 Massachusetts Avenue	SSO discharge due to pipe collapse near Norfolk Street, rain event, and abandoned service connection near 589 Mass Avenue in the sewer main.	7/12 and 7/24/17	7/12 and 7/24/17	Unknown	100 Gallons	Rapid Flow televised the Mass Ave sewer main and observed a hole in the sewer pipe from an abandoned service connection and also observed a pipe collapse in the sewer main near Norfolk Street.	On 8/7/17, the contractor sealed the area near the abandoned service connection with a sectional liner. The City's remedial repair contractor excavated and replaced 50 feet of broken sewer. Work was completed on 11/8/17.	

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195 Grove Street and 169 Grove Street	SSO discharge back up into private property and ground surface.	3/25/17 – 3/26/17	11:30 AM	6:00 PM	100 Gallons	Blockage in sewer line between manholes at 169 and 219 Grove Streets. The back-up in private property was contained within lavatory fixtures – no release to floor.	DPW responded and vactored /jetted the sewer manholes, gravity mains, and force main on Grove Street on 3/25/17. DPW called pump maintenance contractor to rule out pump station issue. Line appeared to be cleared; a second call was received. DPW vactored and jetted Grove Street lines. DPW also called in the TV/Cleaning contractor. Obstruction found and cleared by TV/Cleaning contractor on 3/26/17.	
426 Huron Avenue	SSO discharge from private sewer service line to a sump pump in a private property basement and was pumped out to ground surface.	1/5/2017 - 1/6/2017	10:00 AM	9:00 AM	50 Gallons	Sewer service line failed and sewage from broken pipe travelled underground to a sump pump in the basement and was pumped out to the ground surface.	DPW required property owner to retain a plumber who located the broken service line under the sidewalk. DPW contractor excavated and repaired broken service line. Broken pipe repaired 1/6/17.	
2016 Reported SSOs								
One Brattle Square Basement	SSO discharge from hole in sanitary sewer pipe which backed up into a private property basement.	7/26/2016 - 7/27/2016	9:00 AM	8:00 AM	10-20 Gallons	SSO discharge from hole in sanitary sewer pipe which backed up into a private property basement.	DPW Contractor patched the hole from outside using a clamp and placed a pipe lining sleeve inside the pipe.	DPW will investigate reason for pipe failure and take corrective measures to replace entire length of pipe, if necessary.
2015 Reported SSOs								
30 Arlington Street	SSO discharge from sewer pipe into private property basement.	6/1/2015	11:30 AM	12:00 PM	10 Gallons	DPW tried to jet the Arlington Street combined sewer line and found it to have collapsed near 28 Arlington Street.	The City's remedial repair contractor was called on 6/1/15 to repair the 12" combined sewer line.	
625 Massachusetts Avenue	SSO discharge from broken sewer lateral to ground surface.	3/26/2015	11:30 AM	5:00 PM	400 Gallons	Broken sewer lateral from 625 Mass Avenue. The building sewer service discharges to the sewer line on Bishop Richard Allen Drive.	DPW checked the sewer lines on Bishop Allen drive and jetted them. No problems were found in city sewer lines. DPW pumped out a catch basin where the sewer flow drained to. The catch basin is on a combined sewer system that goes to the MWRA not the river. Property owner hired a private contractor to repair the broken sewer main.	

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8 Education Street	SSO discharge from sanitary sewer manhole due to blocked sewer lateral into catch basin to receiving water which discharged to the Charles river.	1/9/2015	11:30 AM	2:00 PM	200 Gallons	A piece of wood 2" x 4" and 2' long was stuck in the service lateral from the building at the wye connection with the city's sewer main.	A private contractor hired by the Director of Facilities of 8 Education Street removed the piece of wood from the service lateral. The maintenance staff protected the storm drain with barriers and used a shop vac to vacuum up water which leaked from the manhole.	
2014 Reported SSOs								
8 Education Street	SSO discharge from sanitary sewer manhole due to blocked sewer lateral into catch basin to receiving water which discharged to the Charles river	11/18/2014	2:00 PM	6:00 PM	200 Gallons	A combination of factors caused the sewer system blockage inside the manhole. Difference in invert elevation and reduced outlet pipe size are the main cause of it.	DPW crews pumped down the manhole and cleared the obstruction. DPW contractor on site now to correct the invert elevation and replace the outlet pipe (from 4" pipe to 8" pipe).	
1662 Massachusetts Avenue	SSO discharge from blocked sewer lateral which backed up into private property basement (Starbucks)	6/29/2014	5:00 AM	1:00 PM	300 Gallons	Plumber cleaned and jetted out the private sewer lateral from clean out and freed the blockage.	DPW jetted the sewer line on Massachusetts Avenue near the store on 6/29/14. No problems were noted in the lines.	
2013 Reported SSOs								
Massachusetts Avenue at Alewife Brook Parkway	SSO discharge from CAM401B CSO Regulator Structure direct to Alewife Brook Parkway.	12/2/2013	9:00 AM	11:00 AM	Unknown	During a daily check of the City's SCADA system, the level at CAM401B was showing a CSO activation at this location. The historic level data showed continuous discharge from 401B outfall from the original time of CSO activation until system was checked on 12/2.	A sewer maintenance crew was dispatched to this location with a jet/vacuum truck. The line was jetted, and the blockage was cleared and sewer discharge to MWRA was restored.	
89 Walden Street	SSO discharge into private property basement.	11/27/2013	1:00 PM	7:00 PM	10-15 Gallons	Broken sewer main with pipe collapse.	DPW contractor did a temporary repair on the broken sewer main on 11/27 and a permanent repair on 11/29/13.	
17 Dunster Street	SSO discharge through pipe fittings on service line into private property basement.	10/2/2013	11:00 AM	11:20 AM	500 Gallons	DPW jetted the main on Dunster Street to clear an obstruction. The water entered the basement through the pipe fittings on the service line. Clean-out had been opened through the owner's plumber to snake the service line.	The owner contacted a clean-up company to remove water, carpets, wallboard and sanitize basement.	DPW to regularly inspect sewer main on Dunster Street and jet lines as necessary..

SSO Location	Discharge Statement	Date	Time Start	Time End	Estimated Volume	Description	Mitigation Completed	Mitigation Planned
Wadsworth Street at Memorial Drive	SSO discharge from common manhole and storm drain outfall direct to receiving water Charles River.	9/12/2013	4:00 PM	6:00 PM	Over 10,000 Gallons	A blockage in the sewer line from a common manhole on Wadsworth Street with a connection to the Wadsworth Street stormwater outfall resulted in a discharge of sewer water to the outfall.	Cambridge DPW sewer crews removed the separation plate inside the common manhole and jetted all sewer lines entering and leaving the common manhole. The blockage was cleared.	The common manhole will be removed under Contract #7.
148 Mt Auburn Street	SSO discharge into private property basement.	3/25/2013 & 3/26/2013	1:00 PM	unknown	10 Gallons	Blockage in sewer line caused backup into basement.	DPW sewer crews cleaned line removing debris.	
381 Prospect Street	SSO discharge into private property basement.	2/25/2013	7:00 AM	8:00 AM	10-20 Gallons	Pipe collapse with sewage lateral blockage.	Plumber cleaned and jetted the sewer lateral from clean out and freed the blockage. DPW jetted both the sewer and combined sewer lines on Prospect Street and Cambridge Street on 2/22 and again on 2/25/13. No problems were noted in the lines.	
2012 Reported SSOs								
12 Museum Way	SSO discharge private property basement	10/18/2012	11:30 AM	12:00 PM	Unknown	DPW staff reported to this location upon receiving a report that a sewer manhole was overflowing from the location. The DPW inspected that manhole as well as several others and were able to determine the obstruction location which was in the line that services the adjacent high-rise buildings' high-pressure hoses and jetting heads.	The DPW broke through the obstruction and the line immediately began flowing again.	DPW to schedule follow-up meeting
125 Portland Street	SSO discharge to private alleyway and city street.	5/7/2012	4:30 PM	Unknown	10 Gallons	Discharge resulted from cracked sewer lateral and discharged to the city street and alleyway.	Disinfection treatment was performed, and homeowners were informed about cracked sewer lateral. The DPW checked the lines and confirmed no problems.	
101 Acorn Park Drive	SSO/Unanticipated Bypass Overflow Discharge	4/19/2012	7:30 AM	Unknown	1000 Gallons	Water Department mistakenly closed a sewer force main isolation valve on the force main from Discovery Park Sewer Pump Station. The force main leaked at a location between the pumps and check valves.	The water department was informed of the location of the isolation valve on the force main from the Discovery Park Sewer Pump Station.	

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146 Mt. Auburn Street	SSO discharge to private property basement.	3/25/12 & 3/26/12	1:00 PM	Unknown	10 Gallons	Discharge resulting from sewer system blockage or collapse.	Sewer crews cleaned line and removed debris.	
48 Porter Road	SSO discharge to private property basement.	2/14/2012	5:00 PM	Unknown	10 Gallons	Sewer system blockage or collapse.	DPW checked the lines and confirmed no problems and homeowner was notified of findings.	
126 Mt. Auburn Street	SSO discharge to private property basement.	1/25/2012	10:30 AM	Unknown	50 Gallons	DPW's TV and cleaning contractor televised the 10" sanitary line on Nutting Road and identified a root ball blocking the sanitary flow from upstream.	Remedial contractor on-site the following day to excavate and remove the obstruction.	
2011 Reported SSOs								
126 Mt. Auburn Street	SSO discharge to private property basement.	3/15/2011	12:50 PM	Unknown	400 Gallons	Eight-inch sanitary sewer main on Nutting Road became obstructed with tree roots and other debris. The sanitary sewer backed up through the floor drains to the basement of 126 Mt. Auburn Street.	National Water Main was able to remove the root ball causing the obstruction.	The city will monitor this line at regular intervals to minimize any future backups.
859 Massachusetts Avenue	SSO discharge to private property basement.	3/14/2011	11:50 AM	Unknown	1000 Gallons	The sanitary sewer main on Clinton Street became obstructed with debris. The sanitary sewer backed up through cleanout into the basement of the property.	DPW vacuored out the manhole and removed the obstruction in the line.	City will add this main line to our routine maintenance list to minimize any future backups.
301 Binney Street	SSO discharge to ground and private property basement.	1/24/2011	2:30 PM	Unknown	Less than 10,000 Gallons	A sewer flap was seized due to freezing temperatures and this caused the back-up onto private property	Sewer was repaired and blockage cleared.	
Cambridge Park Drive	SSO discharge to the ground	1/24/2011	2:30 PM	Unknown	Less than 10,000 Gallons	Sewer system blockage or collapse caused the SSO discharge. Due to inclement weather, the line was not inspected.	Sewer was repaired and blockage was cleared. This section of sewer line was supposed to be inspected bi-weekly and is included in routine maintenance.	